

REVIEWED

By Melissa (Nikka) Bradley at 10:01 am, Oct 29, 2021

NB

10/29/2021

Worklist: 5335

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-4521	1	BCK	Alcohol Analysis	
M2021-4522	1	BCK	Alcohol Analysis	
M2021-4523	1	BCK	Alcohol Analysis	
M2021-4561	1	BCK	Alcohol Analysis	
M2021-4563	1	BCK	Alcohol Analysis	
M2021-4576	1	BCK	Alcohol Analysis	
M2021-4582	1	BCK	Alcohol Analysis	
M2021-4590	1	BCK	Alcohol Analysis	
M2021-4628	1	BCK	Alcohol Analysis	
M2021-4629	1	BCK	Alcohol Analysis	
M2021-4630	1	BCK	Alcohol Analysis	
M2021-4631	1	BCK	Alcohol Analysis	
M2021-4632	1	BCK	Alcohol Analysis	
M2021-4647	1	BCK	Alcohol Analysis	
M2021-4703	1	BCK	Alcohol Analysis	
M2021-4717	1	BCK	Alcohol Analysis	
M2021-4718	1	BCK	Alcohol Analysis	
M2021-4742	1	BCK	Alcohol Analysis	
M2021-4743	1	BCK	Alcohol Analysis	
P2021-3389	1	BCK	Alcohol Analysis	



Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: M600H11378

Volatiles Quality Assurance Controls

Run Date(s): 10/28/2021, 10/29/2021

Calibration date: 10/28/2021

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-23	1907006	0.0764	0.0688-0.0840	0.0747 g/100cc
					0.0795 g/100cc
					g/100cc
Level 2	Jul-23	1907007	0.2170	0.1953-0.2387	0.2169 g/100cc g/100cc g/100cc
Multi-Component mixture:					
Curve Fit:		Column 1	Lot #	FN07101701	OK
			0.99993	Column2	0.99996

Ethanol Calibration Reference Material						
Calibrator level	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
50	0.050	0.045 - 0.055	0.0517	0.0511	0.0006	0.0514
100	0.100	0.090 - 0.110	0.0999	0.1000	0.0001	0.0999
200	0.200	0.180 - 0.220	0.1983	0.1987	0.0004	0.1985
300	0.300	0.270 - 0.330	0.2987	0.2992	0.0005	0.2989
400	0.400	0.360 - 0.440				
500	0.500	0.450 - 0.550	0.5012	0.5008	0.0004	0.501

Aqueous Controls			
Control level	Target Value	Acceptable Range	Overall Results
80	0.080	0.076 - 0.084	0.080 g/100cc

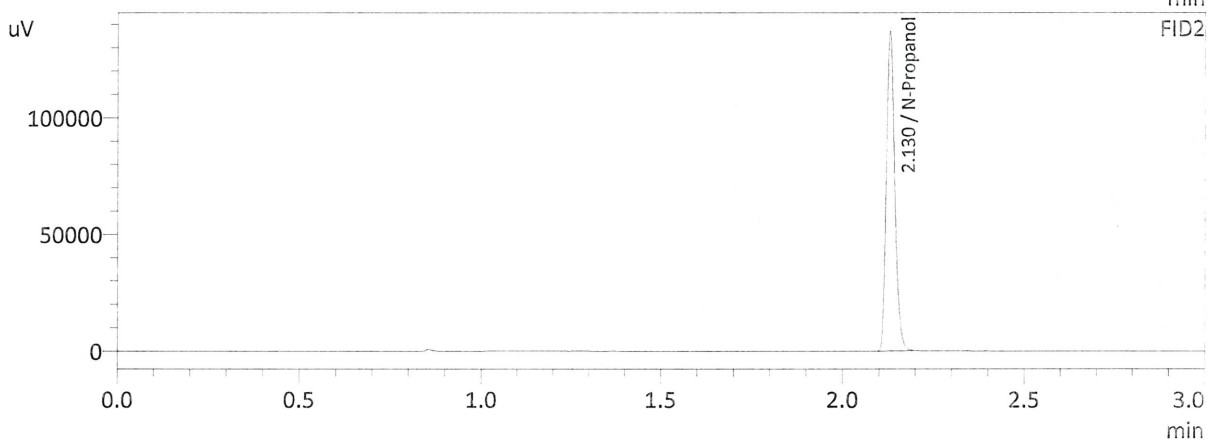
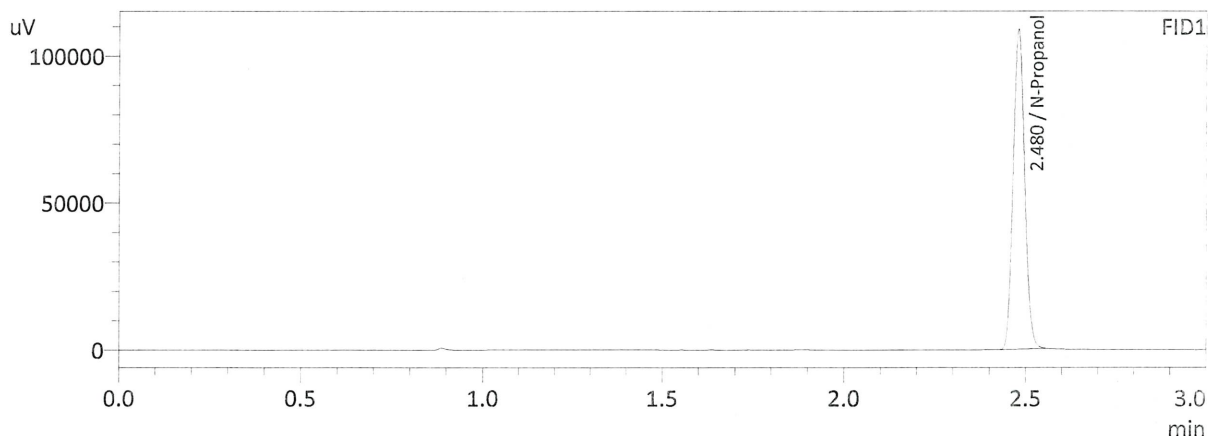
Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99
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Vial#	Sample Name	Sample Type	Level#	Method File
1	0.050	1:Standard:(1)	1	ALCOHOL.gcm
2	0.100	1:Standard	2	ALCOHOL.gcm
3	0.200	1:Standard	3	ALCOHOL.gcm
4	0.300	1:Standard	4	ALCOHOL.gcm
5	0.500	1:Standard	5	ALCOHOL.gcm
6	INT STD BLNK	0:Unknown	0	ALCOHOL.gcm



Sample Name : INT STD BLNK
 Laboratory : Meridian
 Injection Date : 10/28/2021 10:35:54 AM
 Vial # : 6
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.gcm
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	240694	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

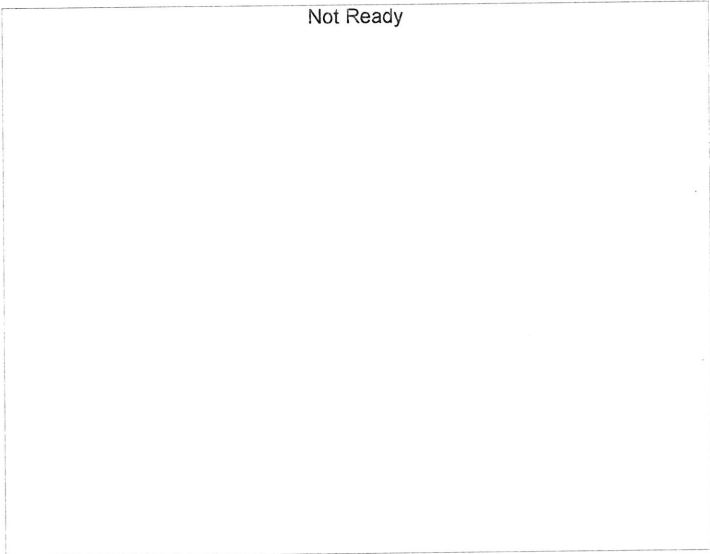
FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	225071	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Calibration Table

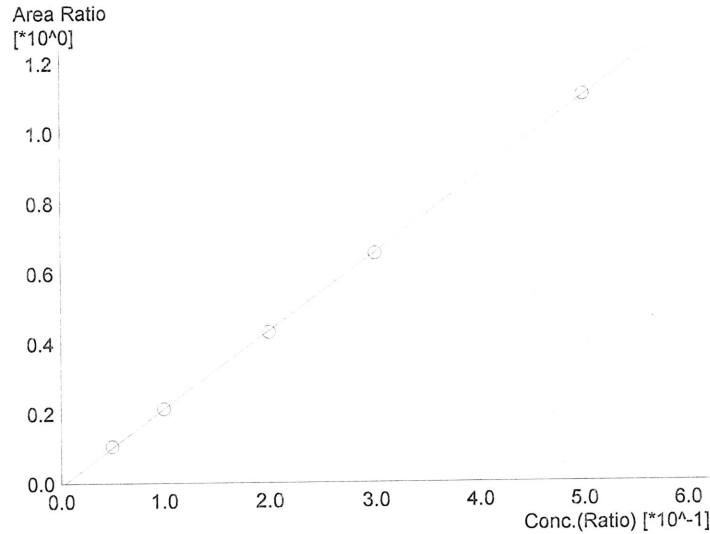
Laboratory : MERIDIAN
 Instrument Name : GC-HS
 Instrument Serial # : C12595800409 / C12255750548

<<Data File>>
 Method File : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.gcm
 Batch File : C:\LabSolutions\Data\211028\CALIBRATION\CALCURVE_TEMPLATE.gcb
 Date Acquired : 10/28/2021 10:27:06 AM
 Date Created : 10/28/2021 10:22:43 AM
 Date Modified : 10/28/2021 10:30:08 AM



Name : Methanol
 Detector Name: FID1
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Ethanol
 Detector Name: FID1
 Function : $f(x)=2.21897*x-0.00968470$
 R² value= 0.9999314
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	19597	0.0517
2	0.100	39226	0.0999
3	0.200	78882	0.1983
4	0.300	122226	0.2987
5	0.500	216709	0.5012



Name : Isopropyl Alcohol
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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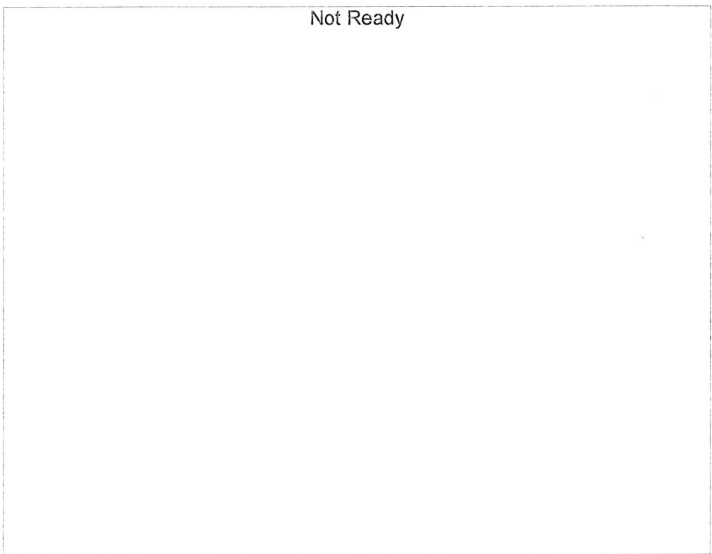
Name : Acetone
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
---	-------	------	------------



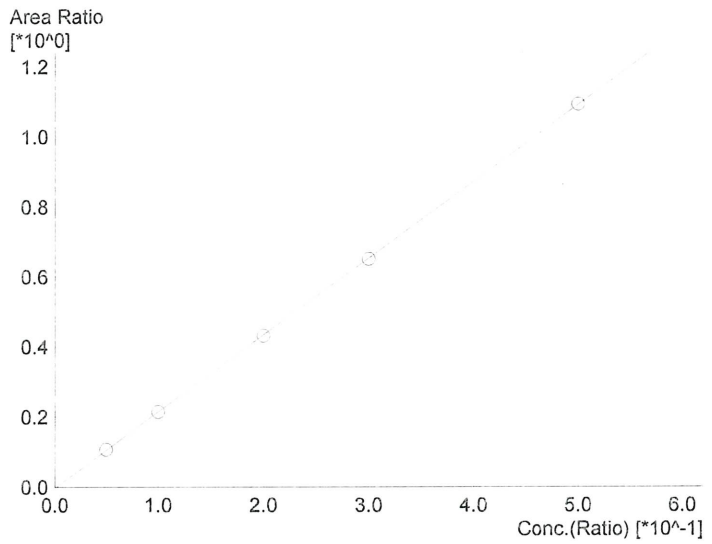
Name : Fluor. Hydrocarbon(s)
Detector Name: FID1
Function : $f(x)=0*x+0$
R² value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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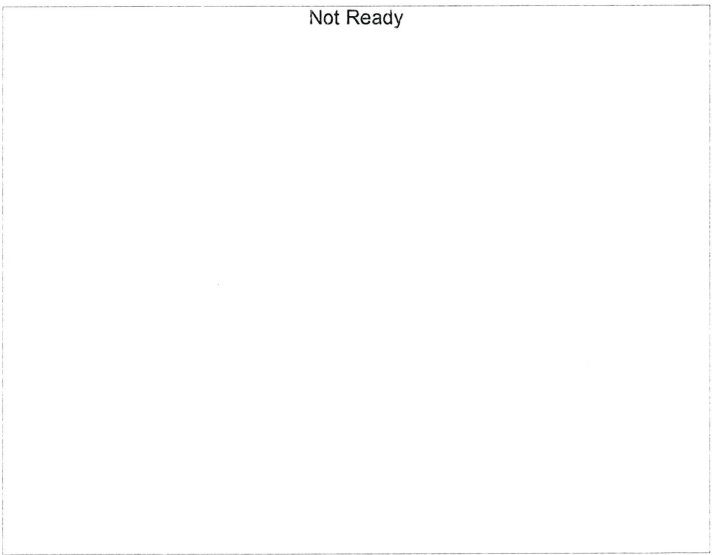
Name : Methanol
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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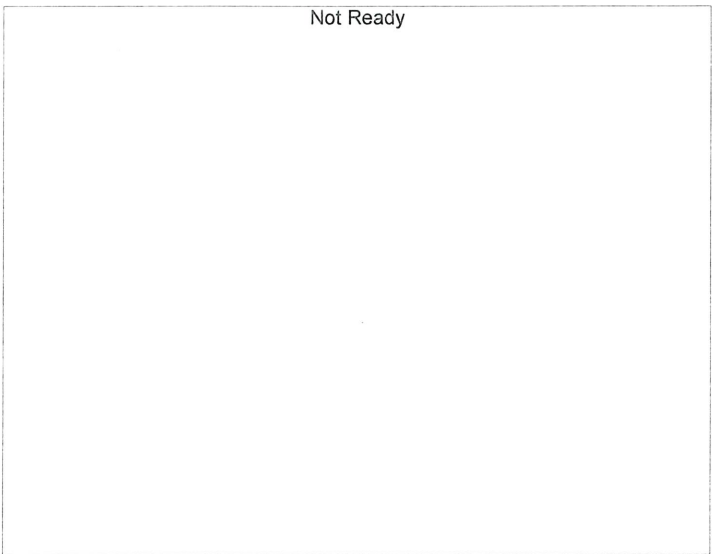
Name : Ethanol
 Detector Name: FID2
 Function : $f(x)=2.19098*x-0.00518303$
 R² value= 0.9999684
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
1	0.050	18638	0.0511
2	0.100	36990	0.1000
3	0.200	73611	0.1987
4	0.300	113413	0.2992
5	0.500	199745	0.5008



Name : Acetone
 Detector Name: FID2
 Function : $f(x)=0*x+0$
 R² value= 0
 FitType: Linear
 ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Name : Isopropyl Alcohol
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

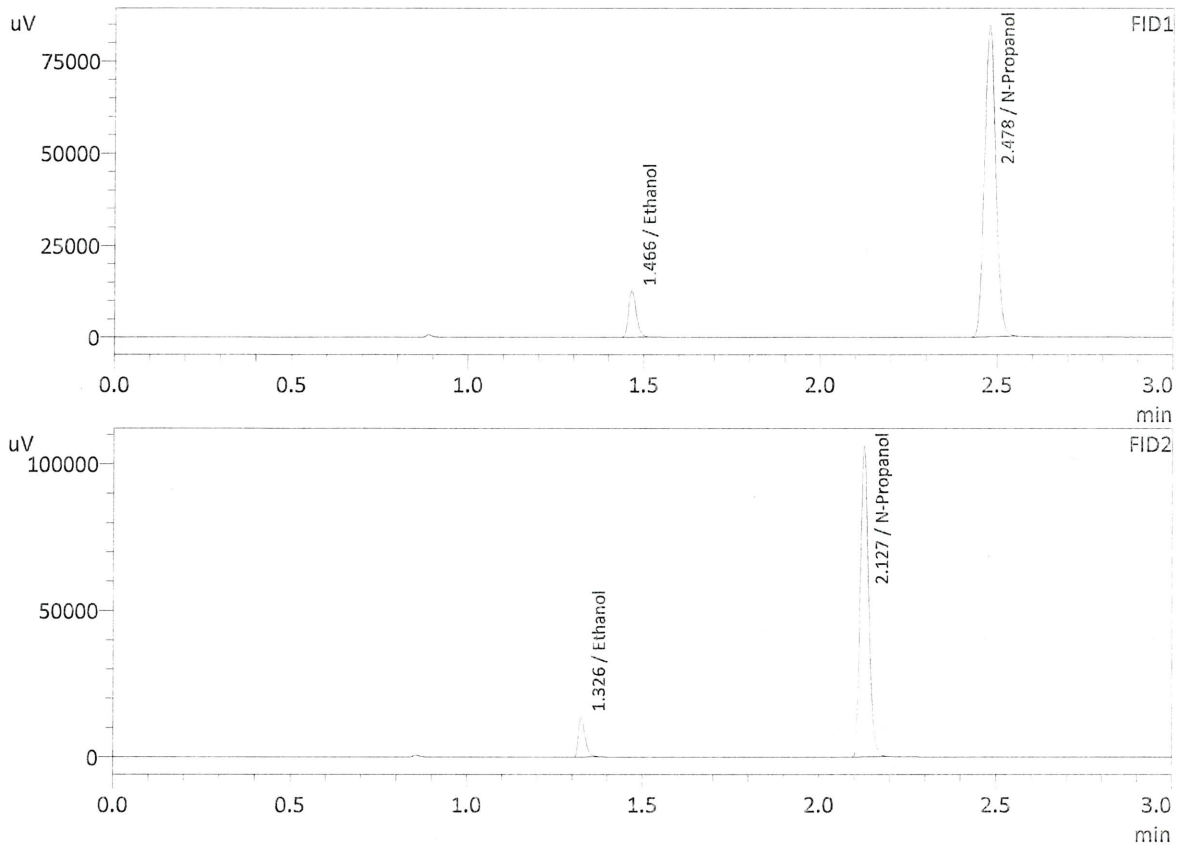
#	Conc.	Area	Std. Conc.
---	-------	------	------------



Name : Fluor. Hydrocarbon(s)
Detector Name: FID2
Function : $f(x)=0*x+0$
R^2 value= 0
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.
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Sample Name : 0.050
 Laboratory : Meridian
 Injection Date : 10/28/2021 9:56:07 AM
 Vial # : 1
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

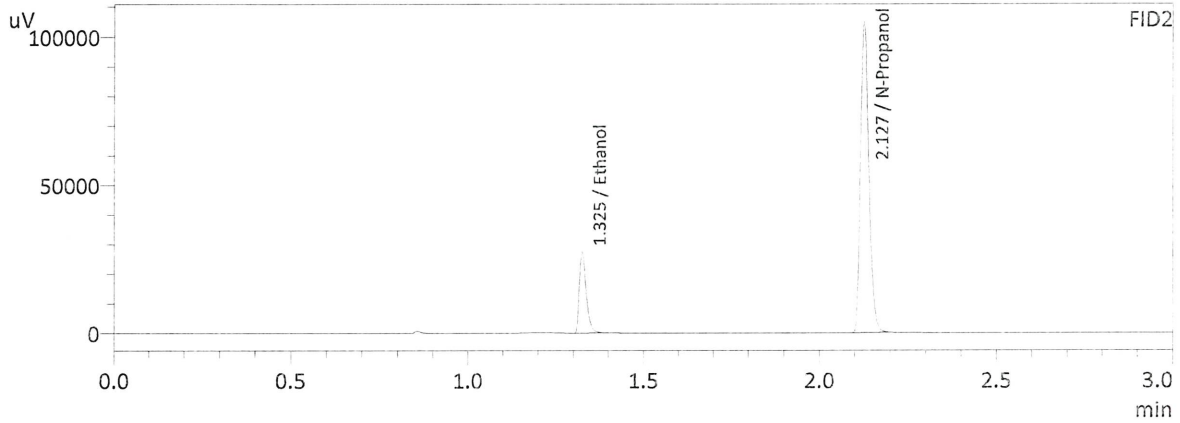
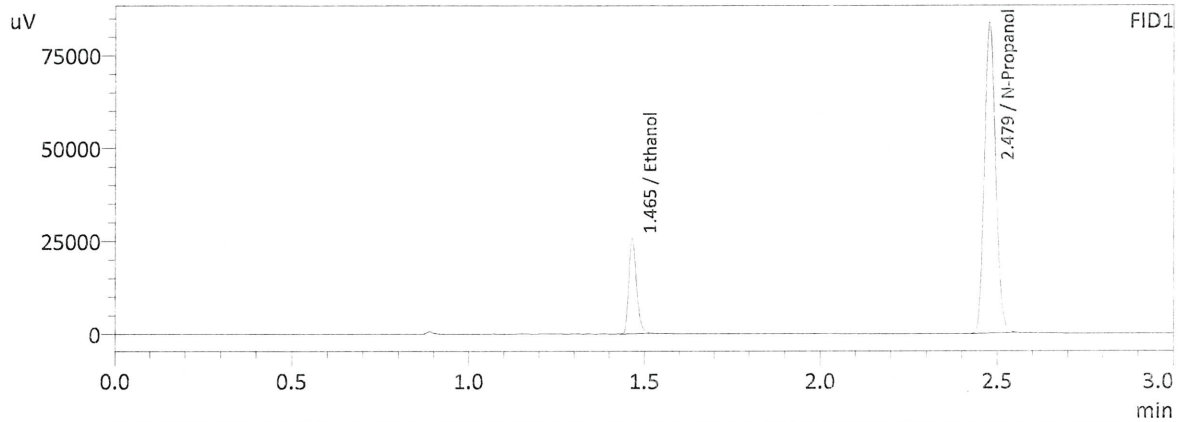
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0517	19597	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186533	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0511	18638	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	174439	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.100
 Laboratory : Meridian
 Injection Date : 10/28/2021 10:03:27 AM
 Vial # : 2
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

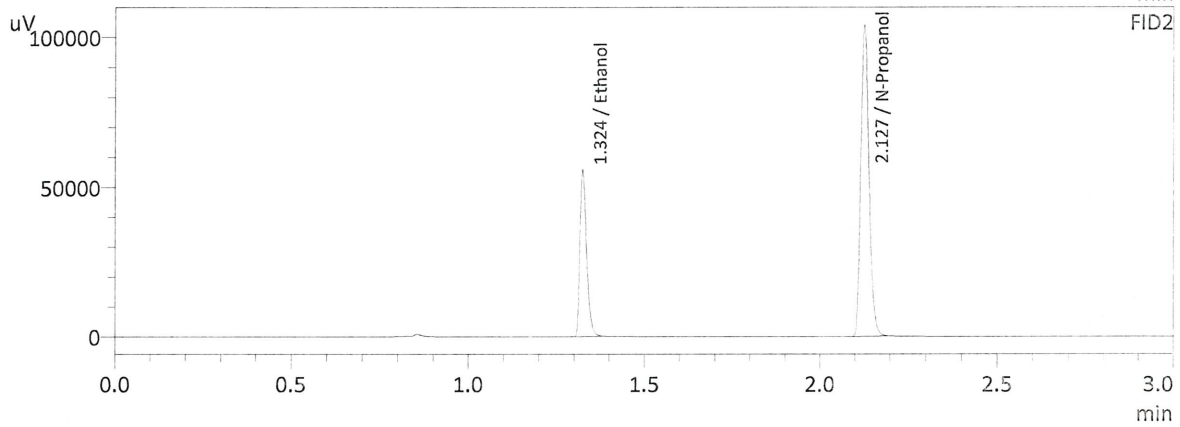
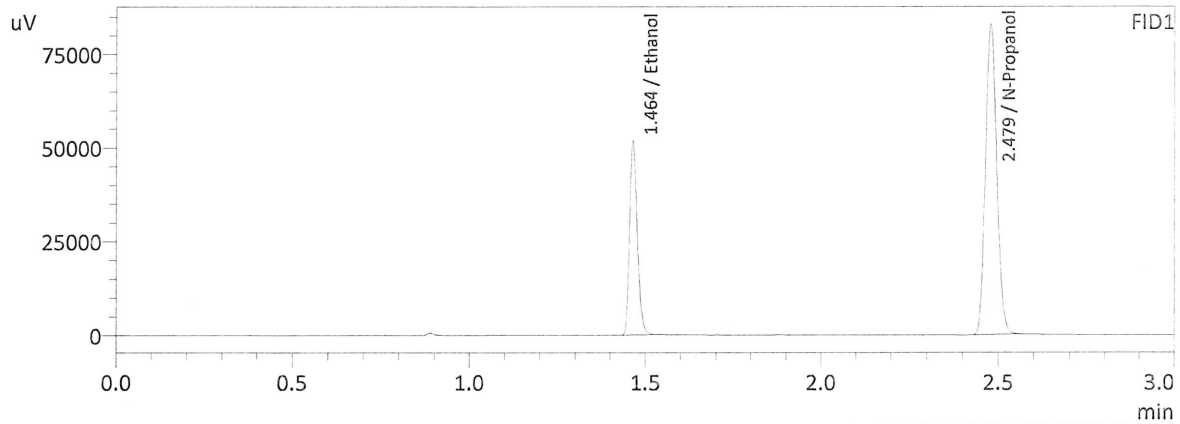
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0999	39226	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	184950	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1000	36990	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	172877	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Handwritten signature

Sample Name : 0.200
 Laboratory : Meridian
 Injection Date : 10/28/2021 10:11:08 AM
 Vial # : 3
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

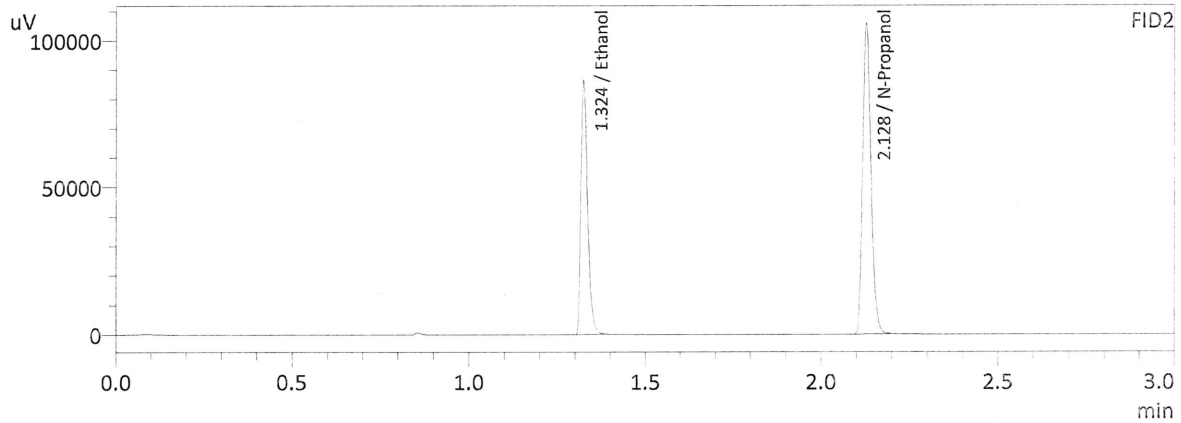
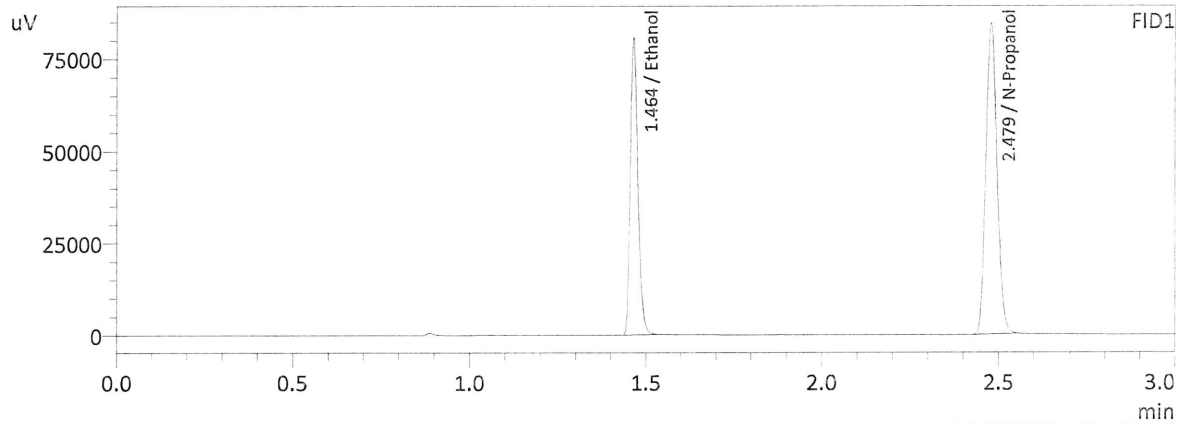
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1983	78882	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	183275	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.1987	73611	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	171041	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : 0.300
 Laboratory : Meridian
 Injection Date : 10/28/2021 10:19:35 AM
 Vial # : 4
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



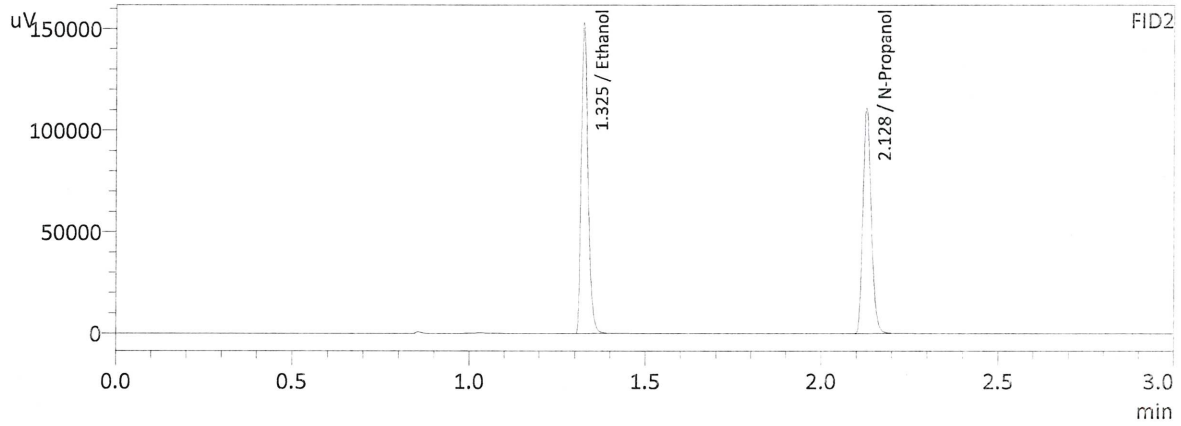
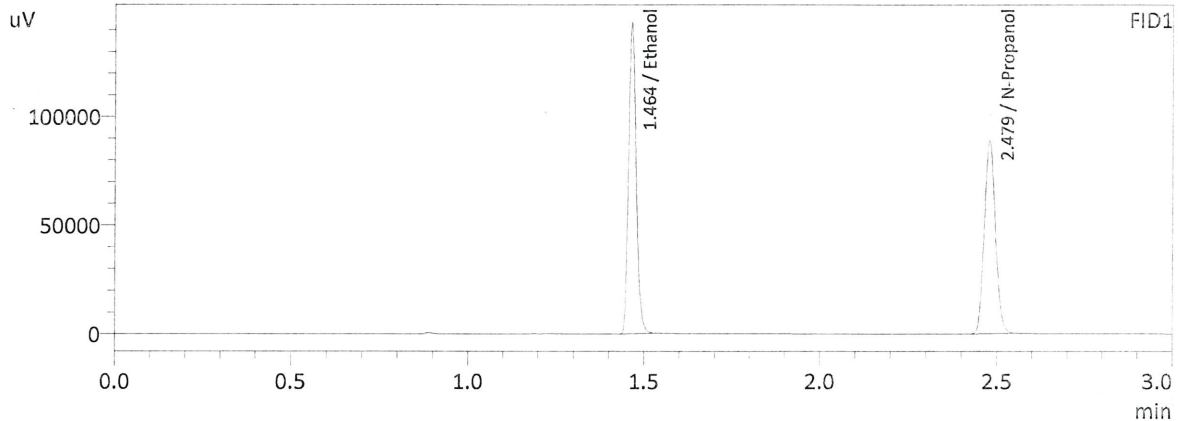
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2987	122226	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187096	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2992	113413	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	174377	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : 0.500
 Laboratory : Meridian
 Injection Date : 10/28/2021 10:27:06 AM
 Vial # : 5
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5012	216709	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	196550	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

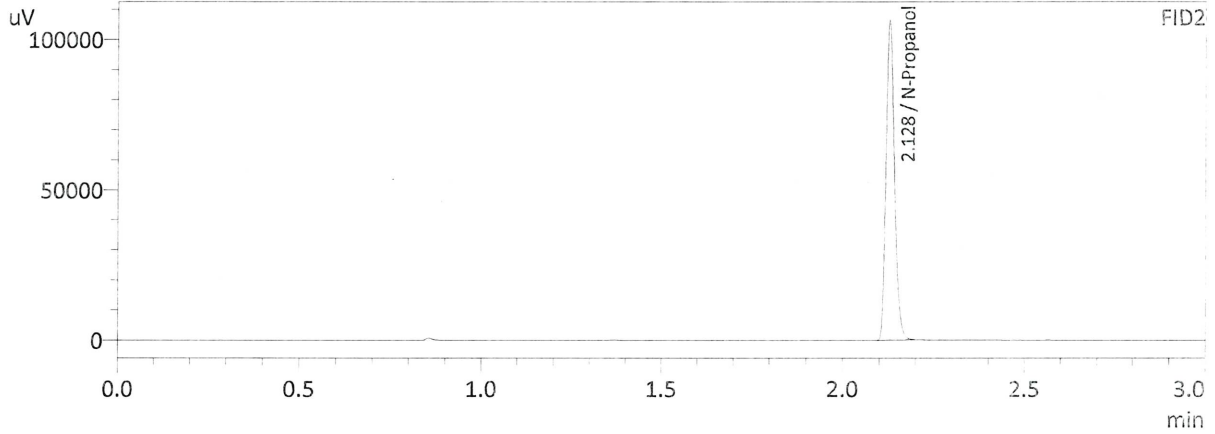
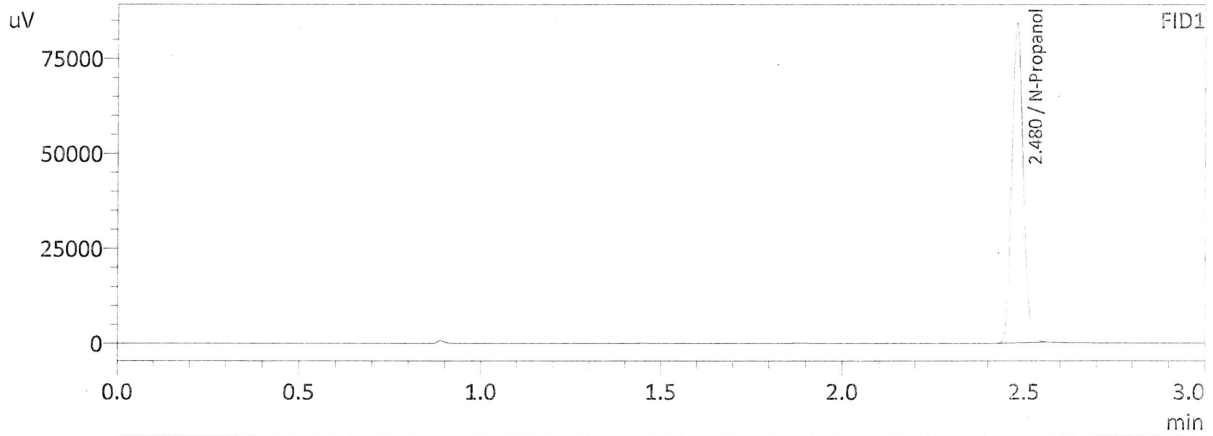
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.5008	199745	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	182894	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
 Shimadzu HS-20 Serial #C12595800409
 Lab Solutions Software Ver. 5.99
 Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Method File
1	INT STD BLK 1	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
2	ED VOLATILES FN 0710	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
3	QC-1-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
4	QC-1-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
5	0.08 QA-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
6	0.08 QA-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
7	M2021-4521-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
8	M2021-4521-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
9	M2021-4522-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
10	M2021-4522-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
11	M2021-4523-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
12	M2021-4523-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
13	M2021-4561-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
14	M2021-4561-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
15	M2021-4563-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
16	M2021-4563-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
17	M2021-4576-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
18	M2021-4576-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
19	M2021-4582-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
20	M2021-4582-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
21	M2021-4590-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
22	M2021-4590-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
23	M2021-4628-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
24	M2021-4628-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
25	QC-2-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
26	QC-2-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
27	M2021-4629-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
28	M2021-4629-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
29	M2021-4630-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
30	M2021-4630-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
31	M2021-4631-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
32	M2021-4631-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
33	M2021-4632-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
34	M2021-4632-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
35	M2021-4647-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
36	M2021-4647-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
37	M2021-4703-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
38	M2021-4703-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
39	M2021-4717-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
40	M2021-4717-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
41	M2021-4718-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
42	M2021-4718-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
43	M2021-4742-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
44	M2021-4742-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
45	M2021-4743-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
46	M2021-4743-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
47	QC1-2-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
48	QC1-2-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
49	INT STD BLANK	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM

Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 10/28/2021 11:32:29 AM
 Vial # : 1
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



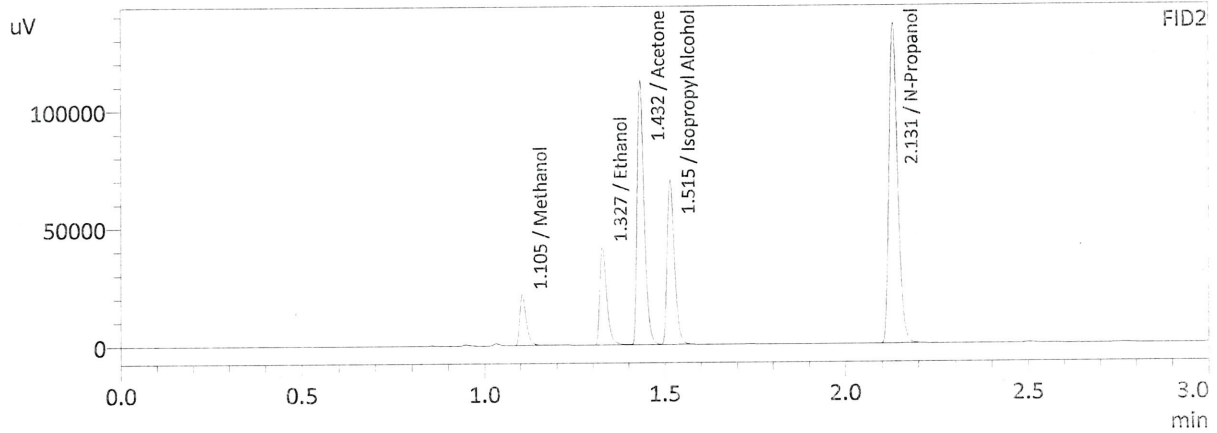
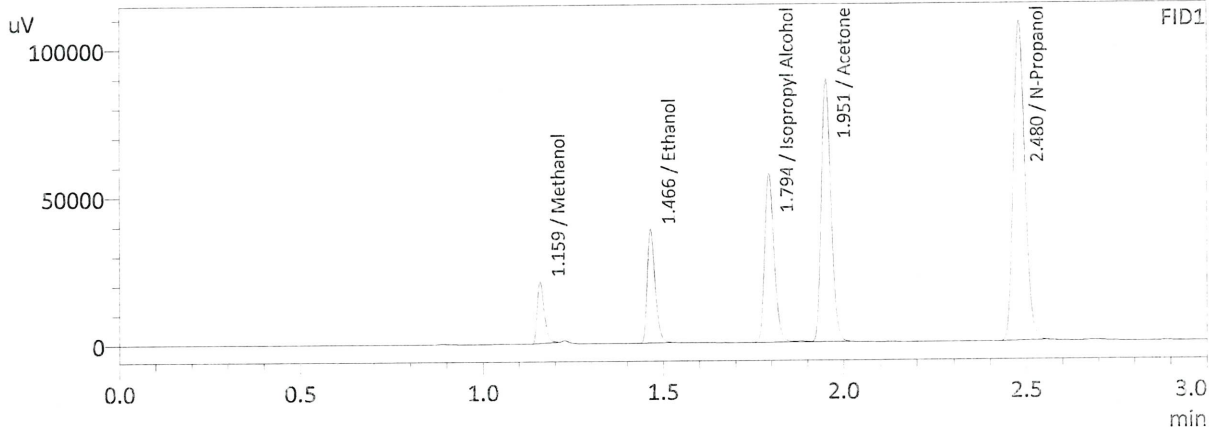
FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187073	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	175495	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Sample Name : MIXED VOLATILES FN 07101701
 Laboratory : Meridian
 Injection Date : 10/28/2021 11:39:50 AM
 Vial # : 2
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	0.0000	28061	g/100cc
Ethanol	0.1149	59007	g/100cc
Isopropyl Alcohol	0.0000	106086	g/100cc
Acetone	0.0000	165480	g/100cc
N-Propanol	0.0000	240389	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	0.0000	27065	g/100cc
Ethanol	0.1165	55870	g/100cc
Acetone	0.0000	151447	g/100cc
Isopropyl Alcohol	0.0000	97832	g/100cc
N-Propanol	0.0000	223308	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 1-1

Analysis Date(s): 10/28/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0742	0.0741	0.0001	0.0741	0.0011	0.0747
(g/100cc)	0.0754	0.0751	0.0003	0.0752		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.074	0.070	0.078	0.004

Reported Result	
0.074	

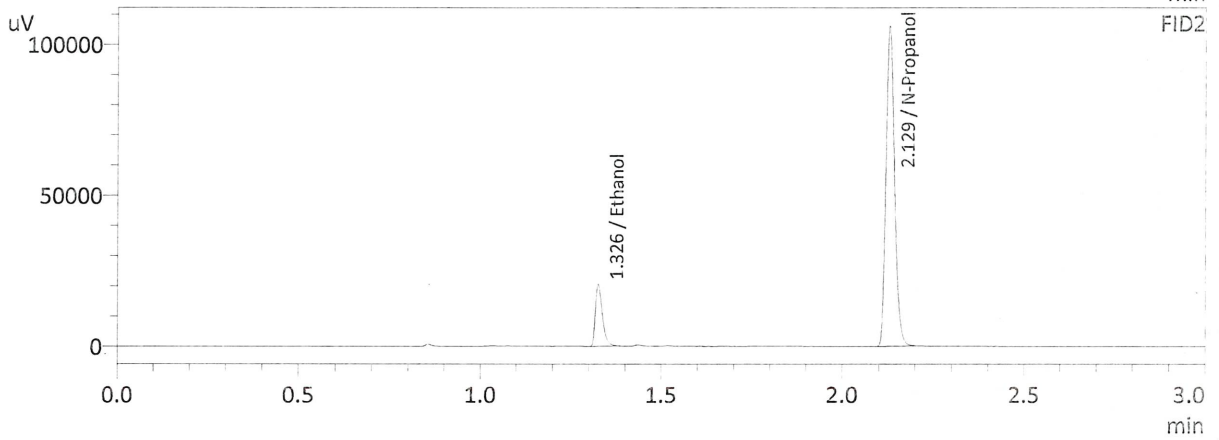
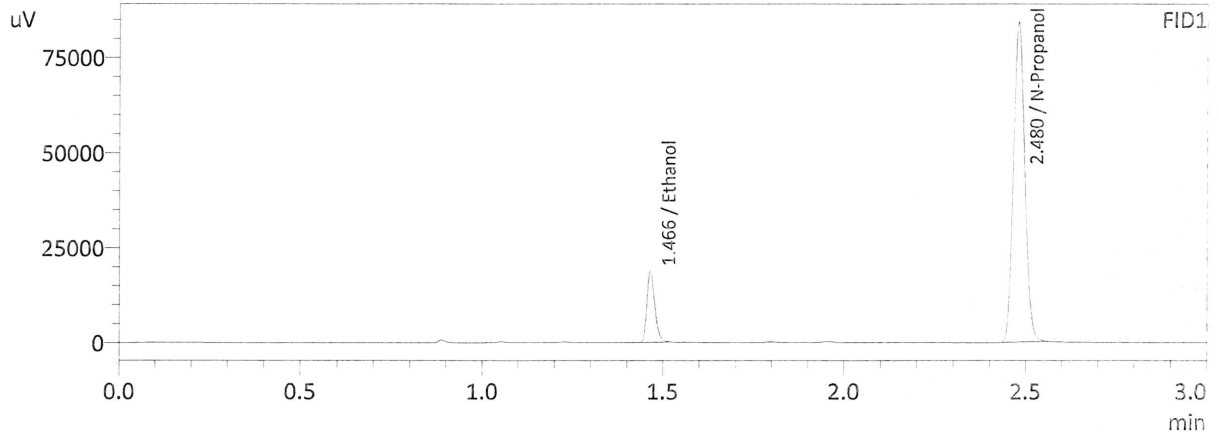
Calibration and control data are stored centrally.

Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

Sample Name : QC-1-1-A
 Laboratory : Meridian
 Injection Date : 10/28/2021 11:47:12 AM
 Vial # : 3
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

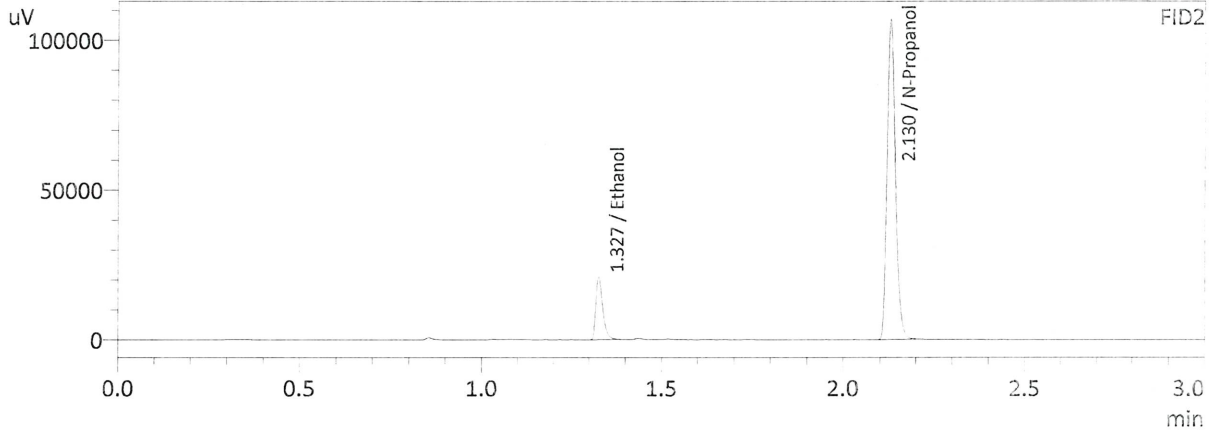
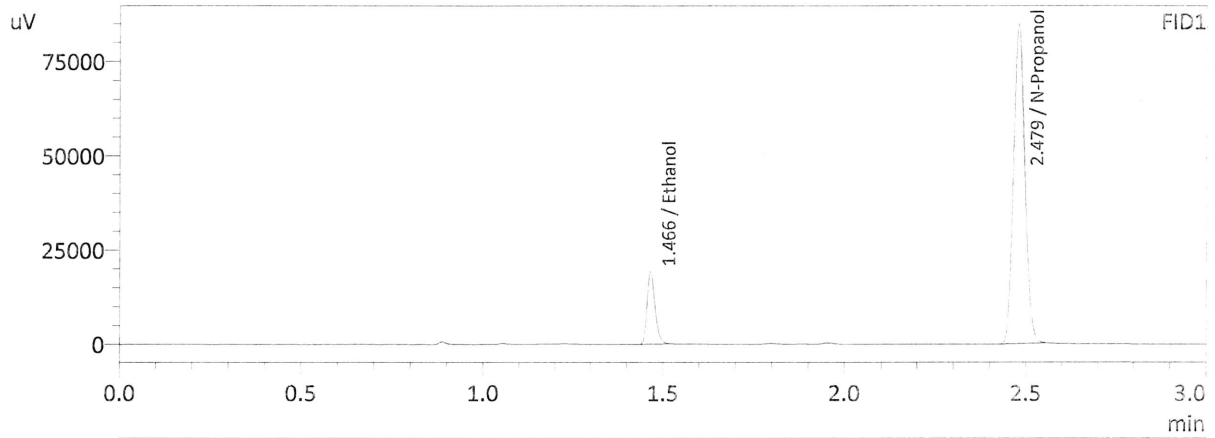
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0742	28978	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186931	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0741	27494	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	174863	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-1-1-B
 Laboratory : Meridian
 Injection Date : 10/28/2021 11:56:04 AM
 Vial # : 4
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0754	29694	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	188167	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0751	28124	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	176290	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 QA

Analysis Date(s): 10/28/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0798	0.0797	0.0001	0.0797	0.0013	0.0803
(g/100cc)	0.0811	0.0809	0.0002	0.0810		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

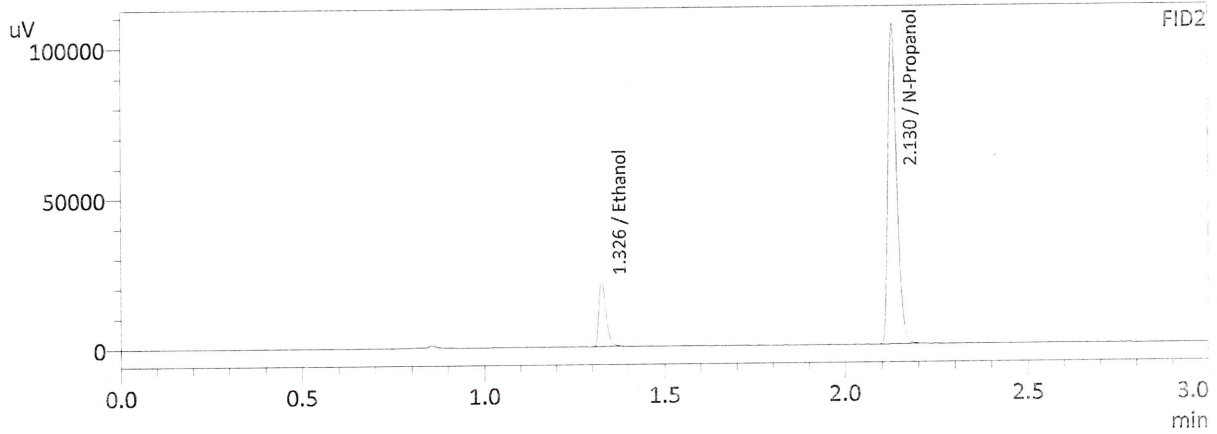
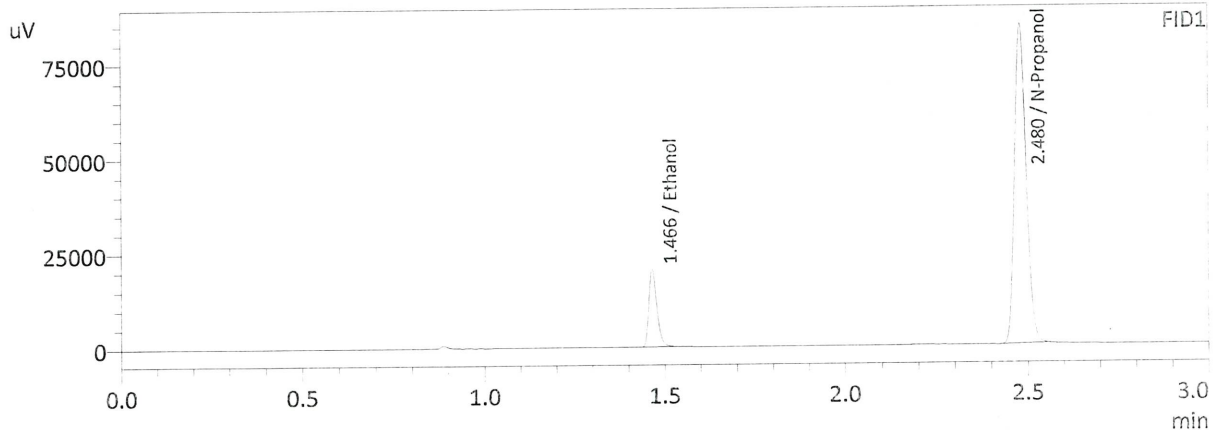
Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	0.076	0.084	0.004

Reported Result
0.080

Calibration and control data are stored centrally.

Sample Name : 0.08 QA-A
 Laboratory : Meridian
 Injection Date : 10/28/2021 12:03:46 PM
 Vial # : 5
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

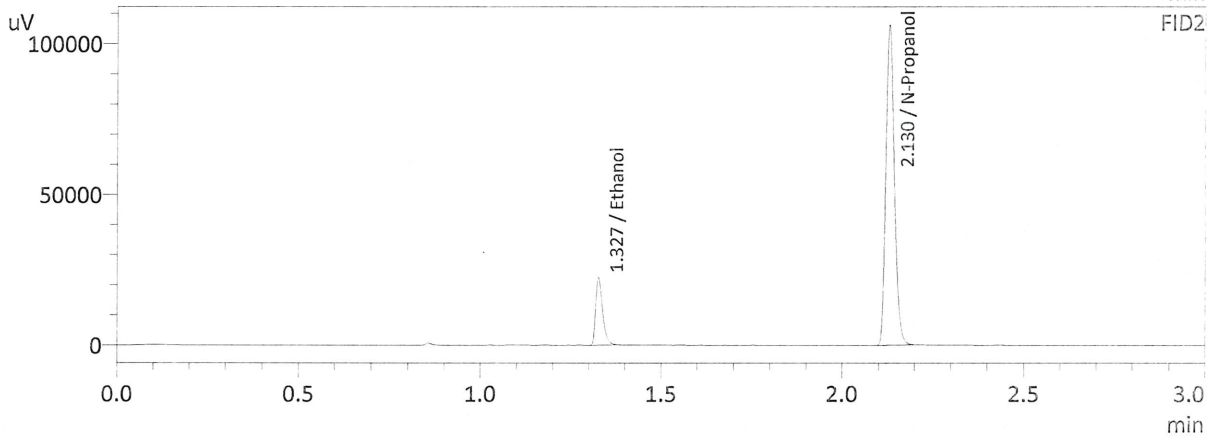
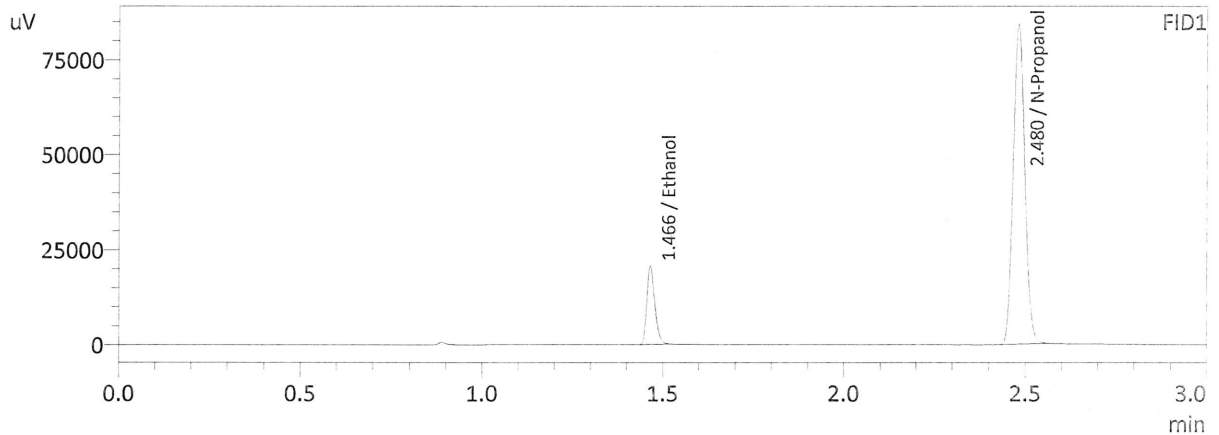
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0798	31440	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	187692	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0797	29775	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	175619	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

Handwritten signature

Sample Name : 0.08 QA-B
 Laboratory : Meridian
 Injection Date : 10/28/2021 12:12:11 PM
 Vial # : 6
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0811	31833	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	186939	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0809	30128	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	175021	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 2-1

Analysis Date(s): 10/28/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2162	0.2173	0.0011	0.2167	0.0003	0.2169
(g/100cc)	0.2164	0.2177	0.0013	0.2170		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.216	0.205	0.227	0.011

Reported Result	
0.216	

Calibration and control data are stored centrally.

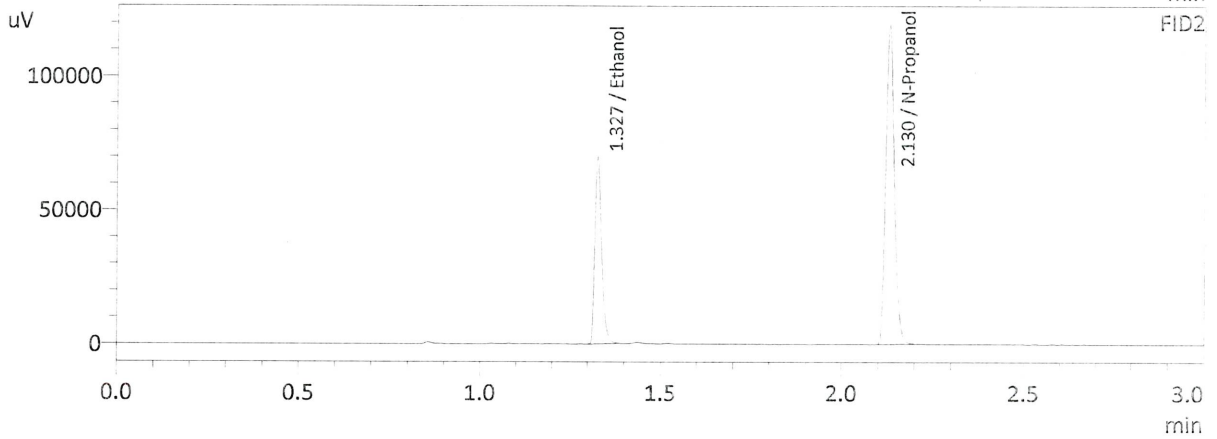
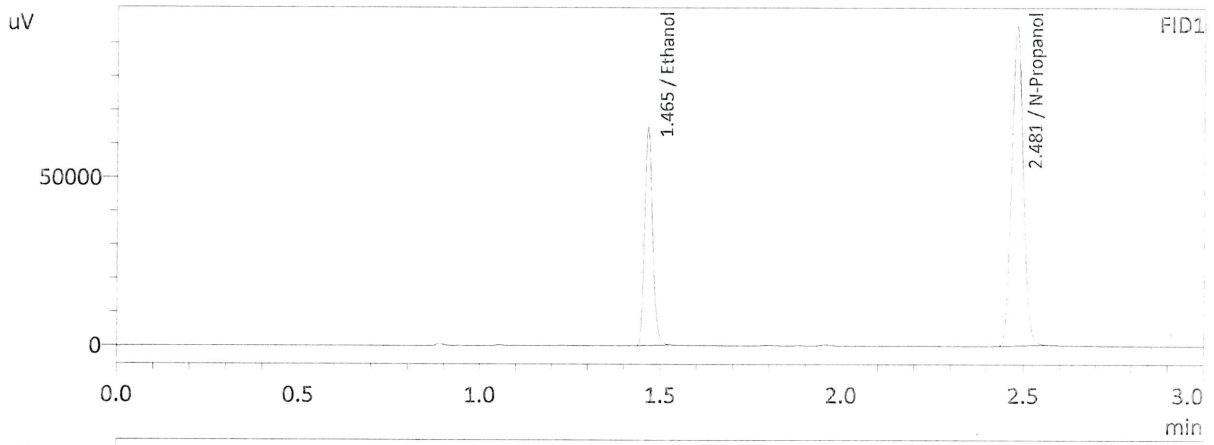


Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

Sample Name : QC-2-1-A
 Laboratory : Meridian
 Injection Date : 10/28/2021 2:45:23 PM
 Vial # : 25
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

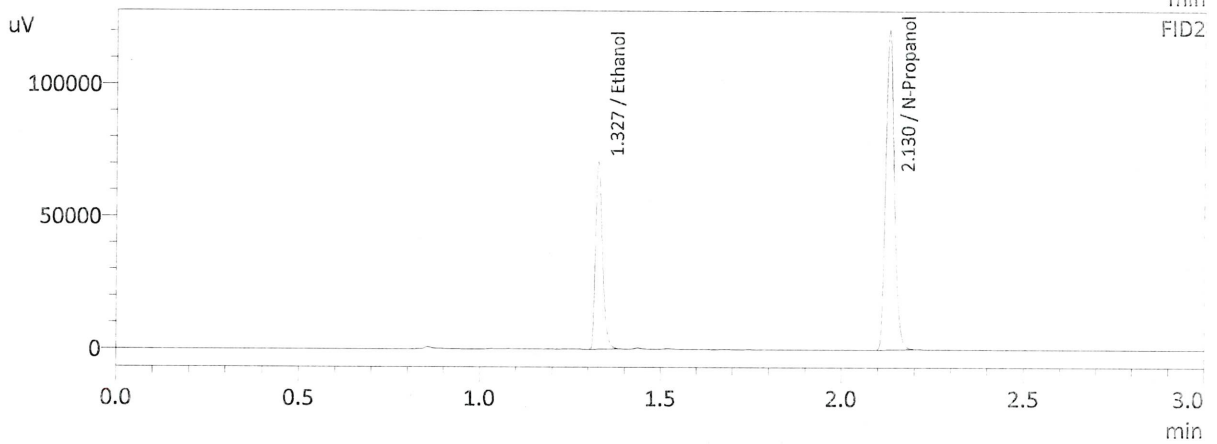
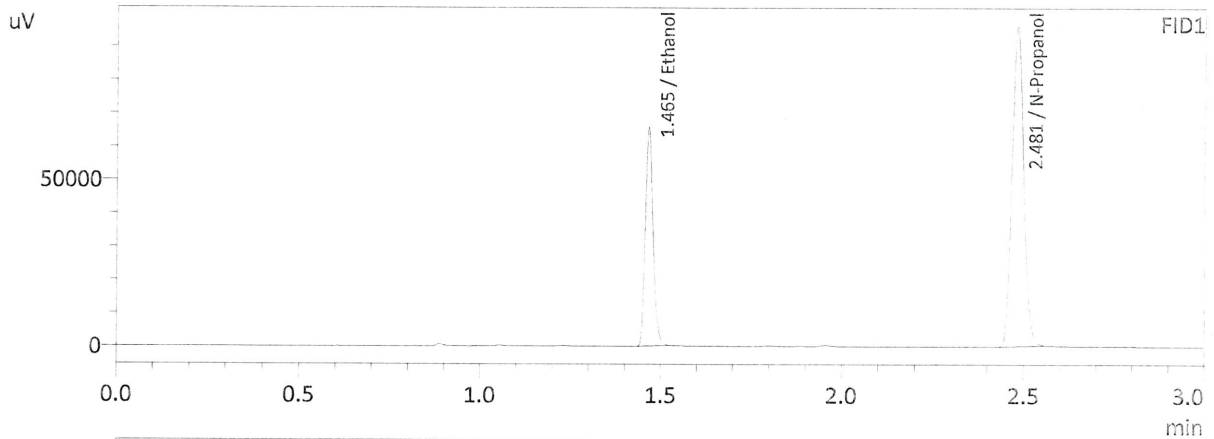
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2162	99025	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	210623	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2173	92519	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	196407	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC-2-1-B
 Laboratory : Meridian
 Injection Date : 10/28/2021 2:53:02 PM
 Vial # : 26
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2164	100174	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	212885	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.2177	93682	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	198499	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC 1-2

Analysis Date(s): 10/28/2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0800	0.0800	0.0000	0.0800	0.0009	0.0795
(g/100cc)	0.0791	0.0791	0.0000	0.0791		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	0.075	0.083	0.004

	Reported Result	
	0.079	

Calibration and control data are stored centrally.

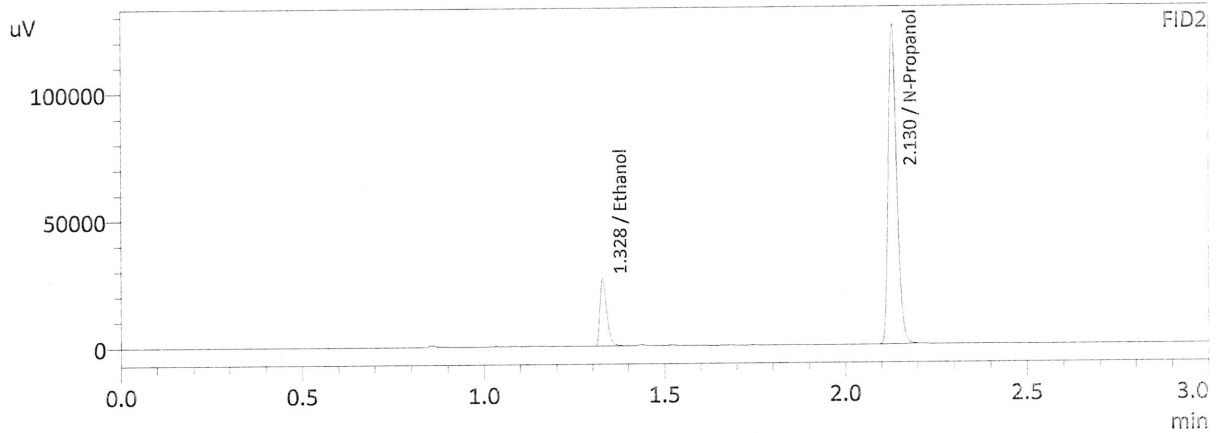
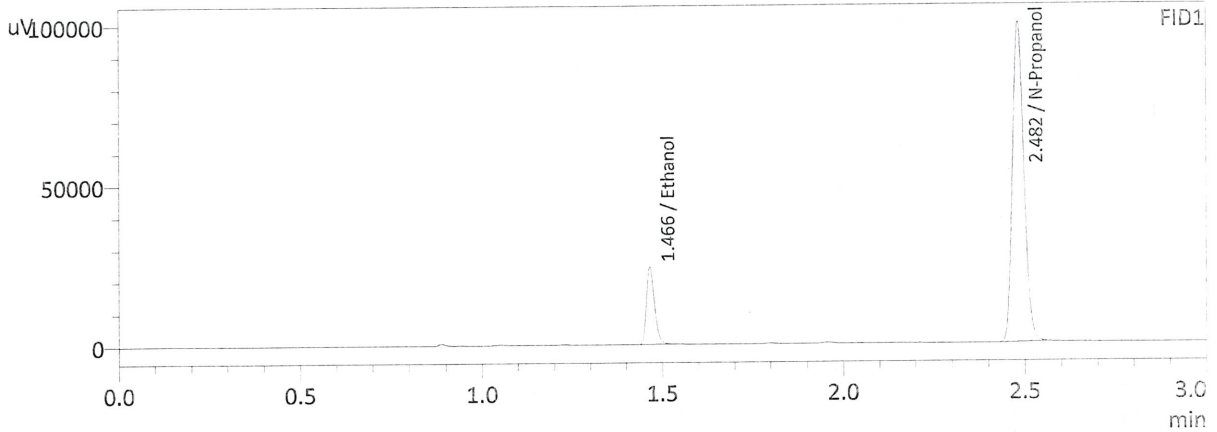
Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager



Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : 10/28/2021 5:41:41 PM
 Vial # : 47
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

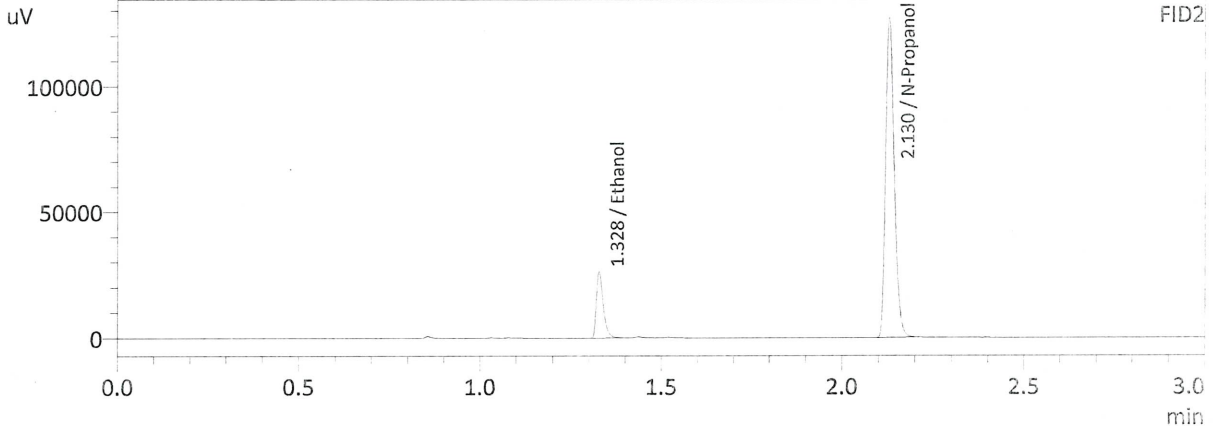
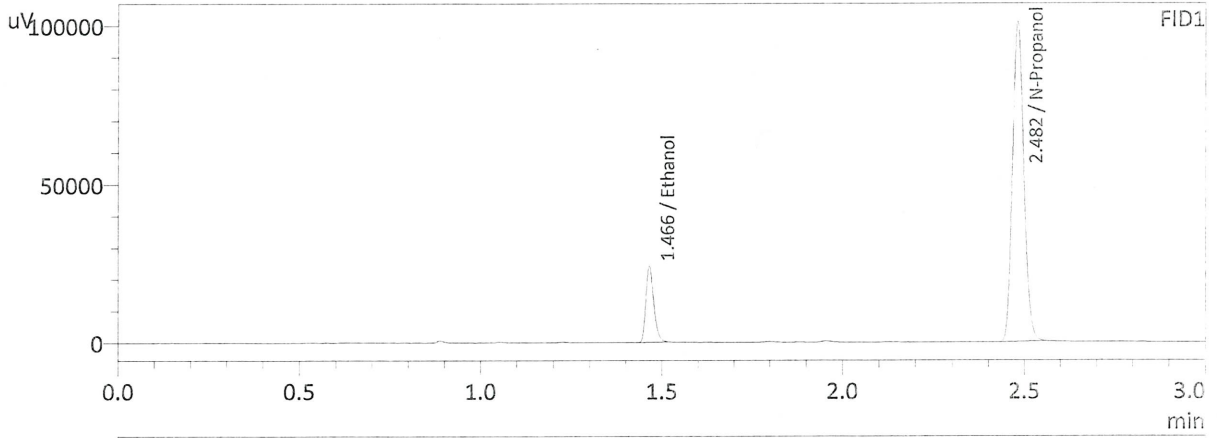
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0800	37123	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	221162	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0800	35120	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	206461	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : 10/28/2021 5:50:56 PM
 Vial # : 48
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

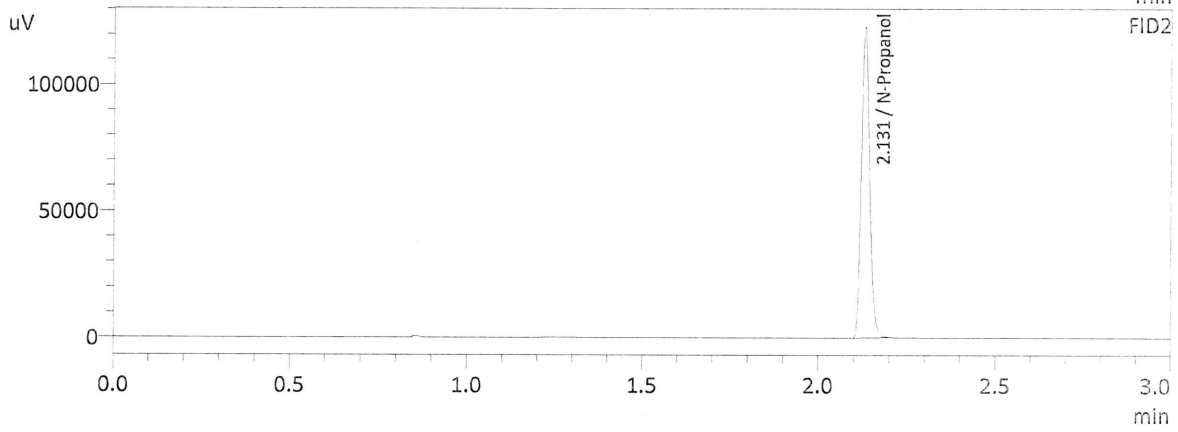
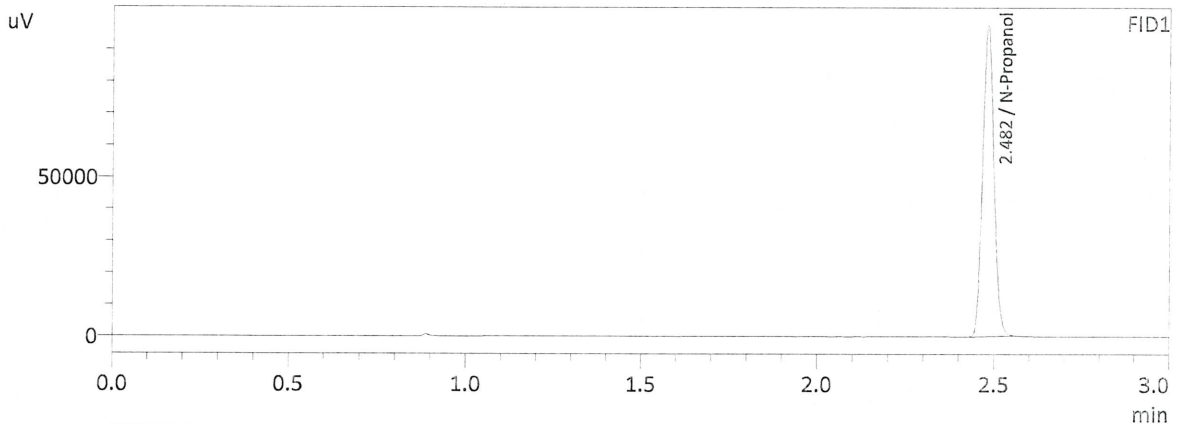
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0791	37134	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	223757	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	0.0791	35135	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	208842	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLANK
 Laboratory : Meridian
 Injection Date : 10/28/2021 5:58:13 PM
 Vial # : 49
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	216236	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	202379	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

The qualitative inhalants run was originally performed on 10/28/2021 was repeated on 10/29/2021 due to a carry-over in a blank.

10/29/2021 GG

Per GG, repeat = reinjection of sampled extracted 10/28/21

AB 10/29/21

BR

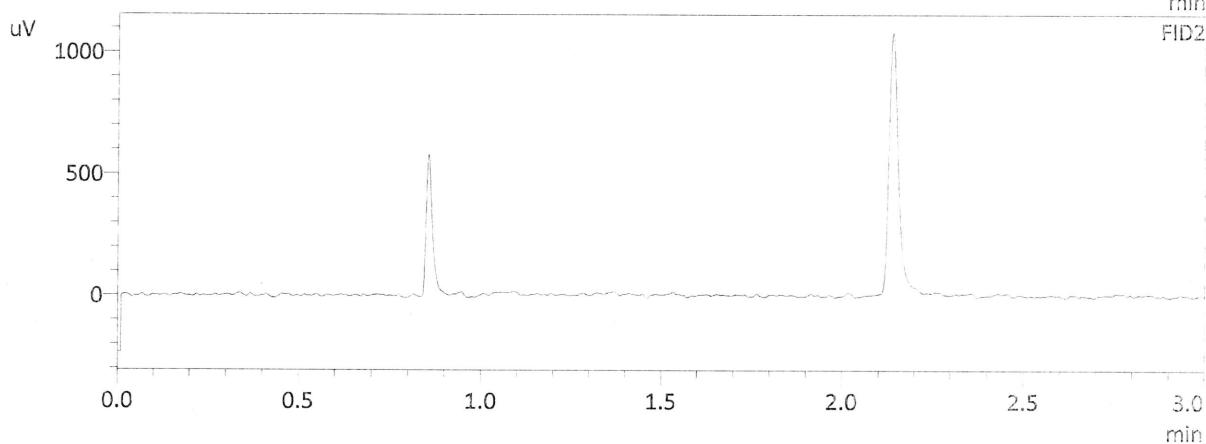
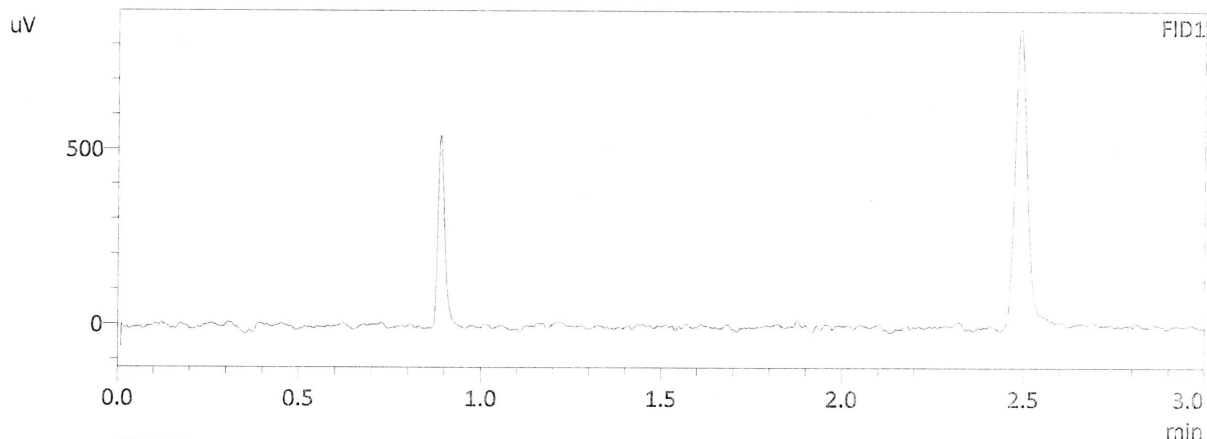
Meridian Blood Alcohol Analysis Batch Table

Shimadzu GC-2030 Serial #C12255750548
Shimadzu HS-20 Serial #C12595800409
Lab Solutions Software Ver. 5.99
Copyright (C) 2008-2020 Shimadzu Corporation

Vial#	Sample Name	Method File
1	INT STD BLK 1	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
2	INT STD BLK 1	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
3	P2021-3389-1-A	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
4	P2021-3389-1-B	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
5	INT STD BLK 1	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
6	DFE 111914OM	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
7	INT STD BLK 1	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
8	TFE 111914	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
9	INT STD BLANK	C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM



Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 10/29/2021 7:58:58 AM
 Vial # : 1
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

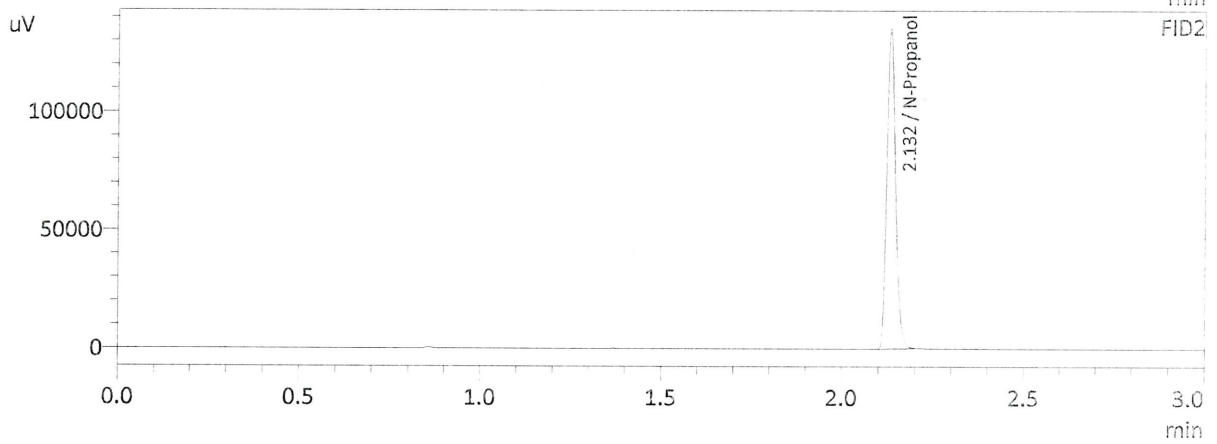
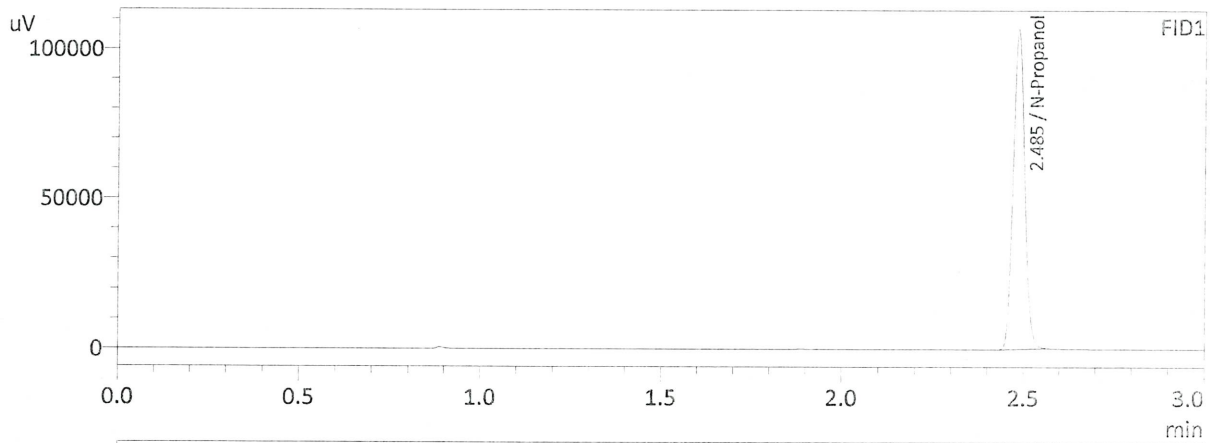
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	--	--	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	--	--	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 10/29/2021 8:06:17 AM
 Vial # : 2
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

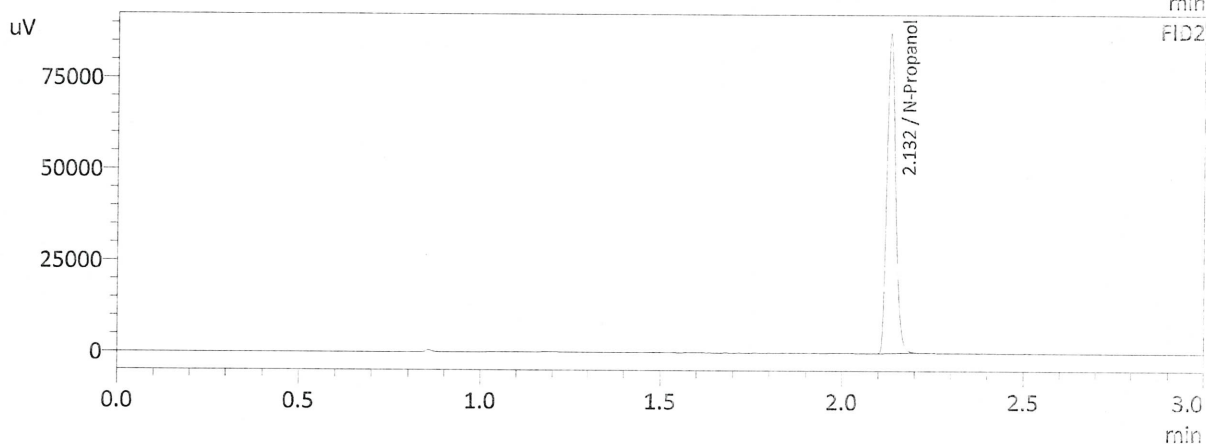
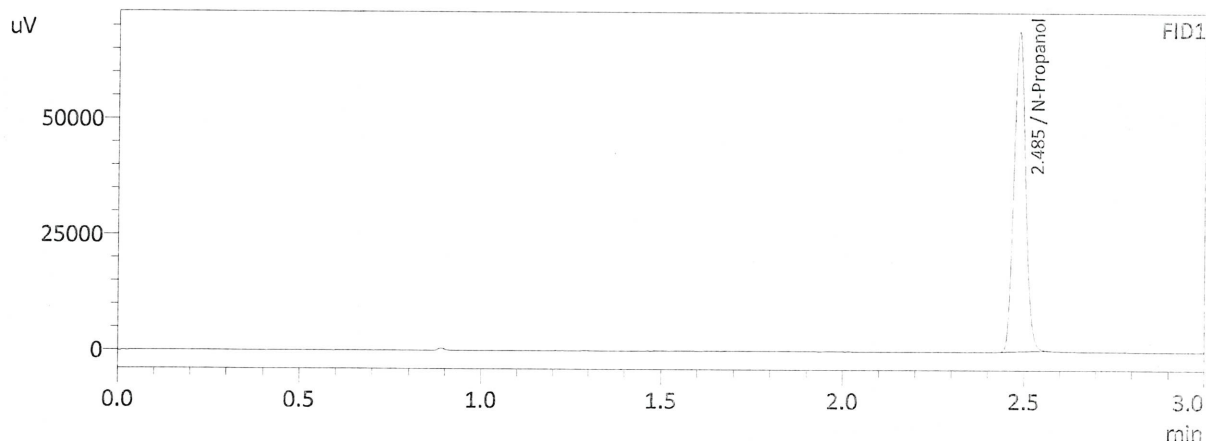
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	237686	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	222062	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 10/29/2021 8:30:02 AM
 Vial # : 5
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

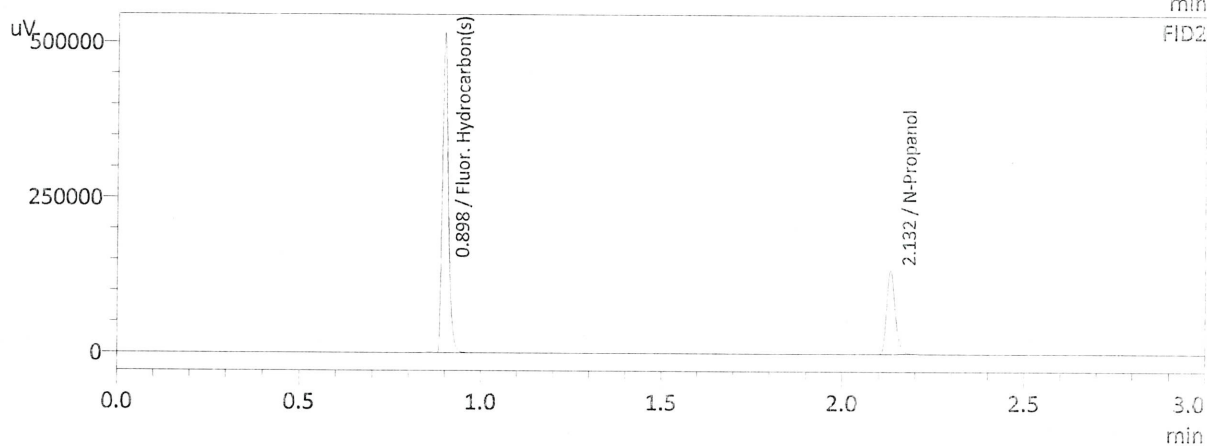
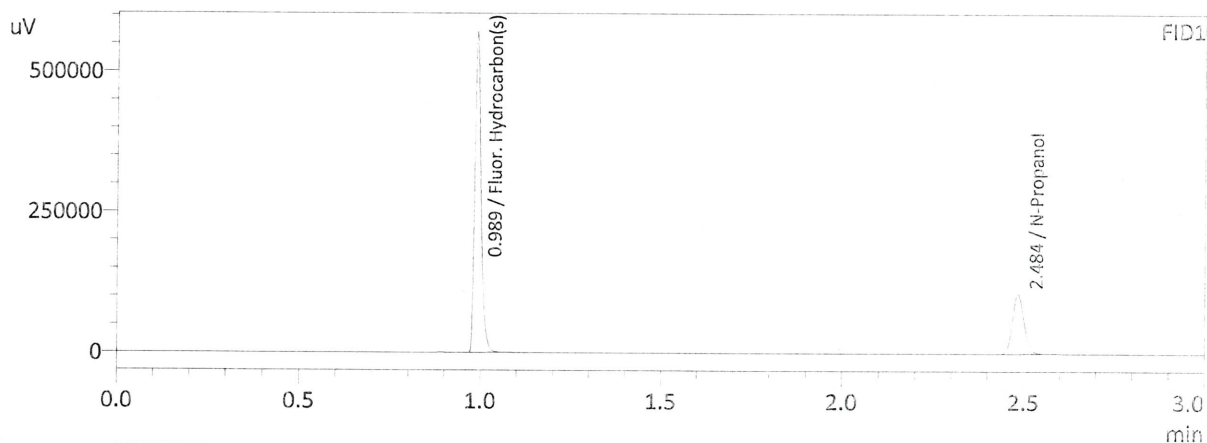
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	153328	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	144373	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : DFE 111914OM
 Laboratory : Meridian
 Injection Date : 10/29/2021 8:38:24 AM
 Vial # : 6
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

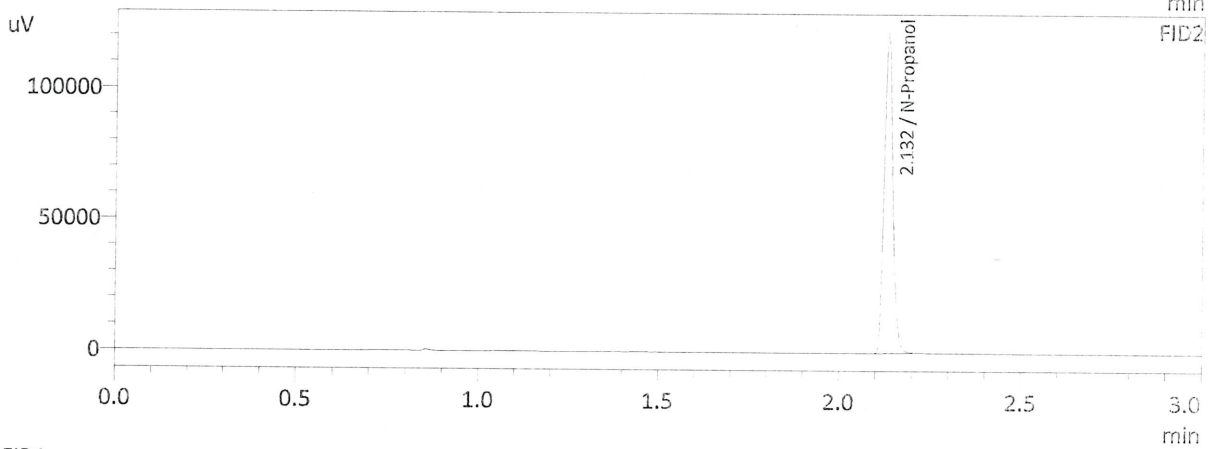
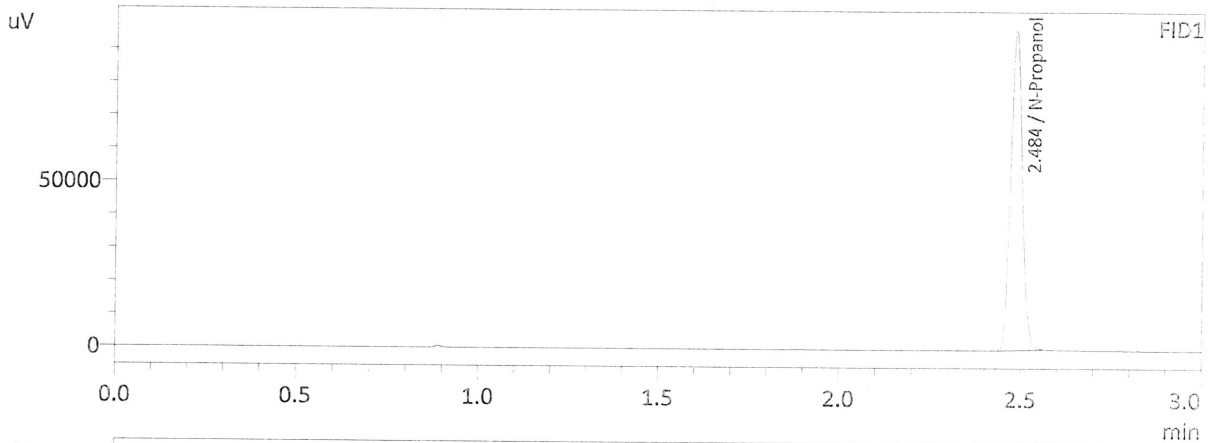
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	237576	g/100cc
Fluor. Hydrocarbon(s)	0.0000	677212	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	221733	g/100cc
Fluor. Hydrocarbon(s)	0.0000	593171	g/100cc

W

Sample Name : INT STD BLK 1
 Laboratory : Meridian
 Injection Date : 10/29/2021 8:46:11 AM
 Vial # : 7
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

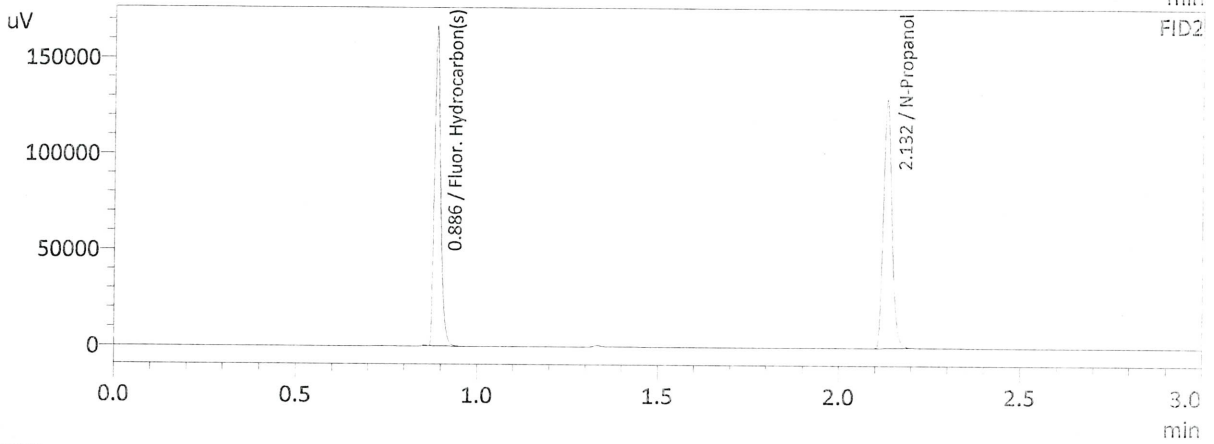
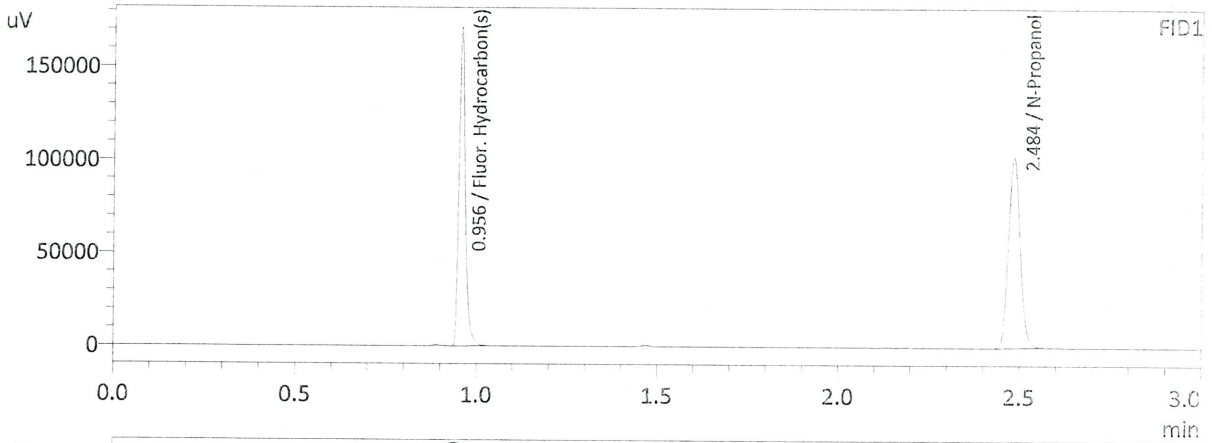
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	214573	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	200737	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W

Sample Name : TFE 111914
 Laboratory : Meridian
 Injection Date : 10/29/2021 8:53:59 AM
 Vial # : 8
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

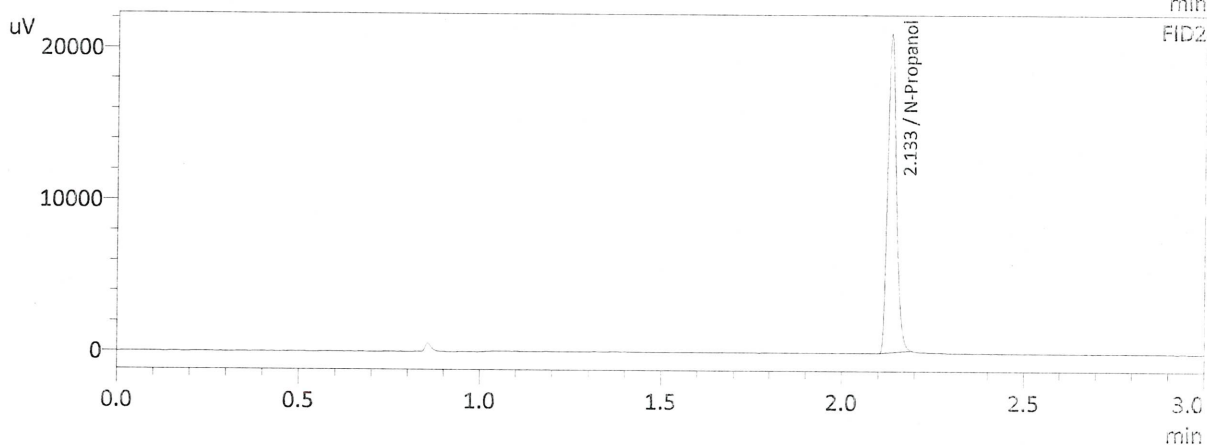
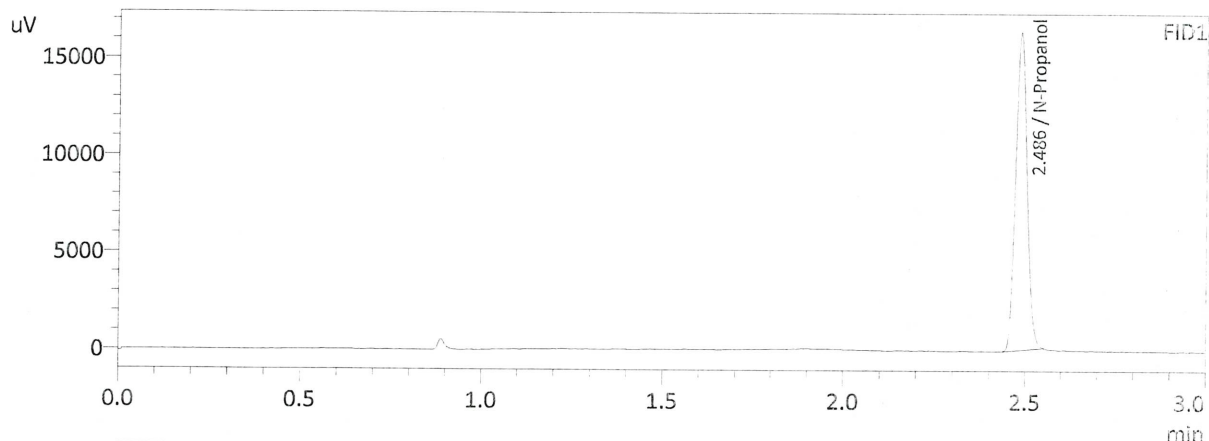
Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	227677	g/100cc
Fluor. Hydrocarbon(s)	0.0000	209314	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	212687	g/100cc
Fluor. Hydrocarbon(s)	0.0000	192823	g/100cc

W

Sample Name : INT STD BLANK
 Laboratory : Meridian
 Injection Date : 10/29/2021 9:03:06 AM
 Vial # : 9
 Method Filename : C:\LabSolutions\Data\211028\CALIBRATION\ALCOHOL.GCM
 Instrument #GC/HS : C12255750548 / C12595800409



FID1

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
Acetone	--	--	g/100cc
N-Propanol	0.0000	36446	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

FID2

Name	Conc.	Area	Unit
Methanol	--	--	g/100cc
Ethanol	--	--	g/100cc
Acetone	--	--	g/100cc
Isopropyl Alcohol	--	--	g/100cc
N-Propanol	0.0000	35126	g/100cc
Fluor. Hydrocarbon(s)	--	--	g/100cc

W